Title (en)
KEY-VALUE MEMORY NETWORKS

Title (de)
SCHLÜSSELWERTSPEICHERNETZWERKE

Title (fr)
RÉSEAUX DE MÉMOIRE DE VALEURS CLÉS

Publication
EP 3413218 A1 20181212 (EN)

Application
EP 18176725 A 20180608

Priority
• US 201762517097 P 20170608
• US 2018036467 W 20180607

Abstract (en)
In one embodiment, a computing system may generate a query vector representation of an input (e.g., a question). The system may generate relevance measures associated with a set of key-value memories based on comparisons between the query vector representation and key vector representations of the keys in the memories. The system may generate an aggregated result based on the relevance measures and value vector representations of the values in the memories. Through an iterative process that iteratively updates the query vector representation used in each iteration, the system may generate a final aggregated result using a final query vector representation. A combined feature representation may be generated based on the final aggregated result and the final query vector representation. The system may select an output (e.g., an answer to the question) in response to the input based on comparisons between the combined feature representation and a set of candidate outputs.

IPC 8 full level
G06F 17/30 (2006.01)

CPC (source: EP)
G06F 16/243 (2018.12); **G06F 16/24534** (2018.12); **G06F 16/3329** (2018.12)

Citation (applicant)
• PHILIP K. DICK: "Hampton Fancher Blade Runne", BLADE RUNNER RELEASE YEAR, 1982
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Citation (search report)
[X] ALEXANDER MILLER ET AL: "Key-Value Memory Networks for Directly Reading Documents", ARXIV.ORG, CORNELL UNIVERSITY LIBRARY, 201 OLIN LIBRARY CORNELL UNIVERSITY ITHACA, NY 14853, 9 June 2016 (2016-06-09), XP080707070

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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
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